

TRANSIL[®] SXT

Concrete Wear Surface Extender
Sealer, Hardener and Densifier

(SiRE)[™] Li
Patented Technologies by Advan
Silicon Reactive Lithium
Concrete Treatment

DESCRIPTION

Transil[®] SXT is a clear, penetrating, breathable, surface-applied liquid treatment which strengthens, protects and hardens concrete pavements extending the service life up to 35%. The high performance treatment maximizes durability and longevity of tined, diamond ground, grooved, milled, shot-blasted, and/or re-textured surfaces making them less prone to rutting and early wear. Proven wear reduction at rates greater than 30%.

APPLICATIONS

For use on concrete pavements for highways, bridge decks, parking decks and airport runways, as a pavement preservation treatment designed to enhance wear resistance of concrete surfaces.

ADVANTAGES

- Reactive lithium chemistry provides very low sodium and potassium elements (only trace amounts-- lowest in the industry) promoting enhanced bonding with calcium hydroxide to form insoluble bonding.
- Molecular size of lithium provides for deeper penetration and more permanent protection enhanced abrasion resistance and durability.
- UV stable, will not flake or peel.
- Chemically reacts with concrete to produce insoluble calcium silicate hydrate making it harder and less permeable. Reduces dusting for cleaner and safer environments.
- Easy one coat application. No water wash required.
- Can be applied on freshly placed, new or existing pavement surfaces.
- Curing compounds can be applied on top of treated surfaces to provide ultimate hydration without discoloring or whitening the surface. Test area recommended for architectural finished applications.

- Contains less than 2% sodium or potassium salts (Na and K silicates are known to contribute to surface crazing, efflorescence, and surface ASR).
- Water based, contains no solvents, Low VOC content, < 50g/L.
- Extends the life expectancy, and integrity of the pavement enhancing surface durability.
- Cost effective, safe and rapid return to service.

TESTING/COMPLIANCE

- ASTM C779-95 – 45% loss reduction

Recommended for use on exposed concrete, both new and existing concrete pavement surfaces.

PACKAGING

- 5 Gal Pail • 44 lbs • 20 kgs
- 55 Gal Drum • 484 lbs • 220 kgs
- 275 Gal Tote • 2,420 lbs • 1,110 kgs

Form: Clear, pale light green, water-based solution

Total Solids: 6.6%

100% Active Ingredients of total solids

Density/Specific Gravity: 8.68/1.04

pH: 11.68

V.O.C.: less than 50g/L

Freeze point: 32° F (0° C)

Depth of Surface Penetration: Up to 8mm

Shelf Life: 1 year in factory sealed container

COVERAGE

Roadway Pavement 150-200 ft² per gallon
(1 liter per 3.67 to 7.35m²)

**Coverage rate will vary with each concrete quality*

DRYING TIME

1 hour

**Dependent upon temperature and humidity conditions*

APPLICATION PROCEDURES & INSTRUCTIONS

Application by spray rig, squeegee or brush to new or existing concrete surfaces. (Always test each concrete surface for suitability and desired results. Let surface dry before inspection and approval of desired application.)

Concrete Pavement

Apply enough Transil[®] SXT to keep the surface wet for 20 minutes. Let the surface dry. (Usually 1 to 4 hours). Lane closures may be removed when the surface is visibly dry after the surface treatment.

Surface Preparation

Roadway dirt and debris shall first be removed from the area of the deck to be treated. Surfaces to which the sealer is to be applied shall be free of dust and debris; swept, sandblasted, or shot blasted then manual or power broom swept and blown with compressed air so that surface shall be dry and free of dust and dirt. If wet grinding or diamond texturing processes were utilized, ensure that all concrete slurry is removed prior to Transil SXT installation. High pressure compressed air shall be used to blow all loose material from visible cracks. The cleaning equipment shall be fitted with suitable traps, filters, drip pans, driers and other devices to prevent oil and other foreign material from being deposited on the surface. Traffic shall not be allowed on the clean surface prior to application of the sealer. Existing pavement markings shall be removed. All traces of asphalt or petroleum products and concrete curing seals shall be removed by the abrasive blasting prior to air sweeping.

Installation/Specification

Materials shall be stored at 18-27° C (65-80° F). The system shall provide a material reaction on the concrete surface a time of not less than 20 minutes. The time shall be adjusted to compensate for the change in temperature throughout the day. The temperature of the surfaces to be treated may range from 4.4° C (40° F) to 49° C (120° F). The Contractor may request a technical representative to be on site during initial application. Spray bar through positive displacement atomization of the treatment. Compressed air shall not be used to produce the spray. Cleaning and flushing of equipment, tools, etc., shall be done with an appropriate method.

Before using the material the Contractor shall submit to the Director copies of the manufacturer certified test data showing that material complies with the qualitative and quantitative requirements of this specification.

When the material has been approved by the Director, further testing by the manufacturer will not be required unless the formulation of manufacturing process has been changed, in which case new certified test results will be required. The manufacturer shall certify that the formulation is the same

as that for which data has been submitted.

The Transil[®] SXT material shall be applied by a low pressure sprayer that evenly distributes the material in a spray rate that meets the minimum required application rate as determined by specification.

Certificate of Installation and License (Patented)

A certificate of material installation and product license maybe be requested for Transil[®] SXT private, state or federal agency projects requiring proof of application license and material certificates. Contact an E-Chem representative to provide sample submittals, product retention samples and/or certificate of analysis (C of A) for product shipments if requested for project.

CLEAN UP

Use water to clean tools and equipment. Transil[®] SXT treatments are alkaline and all applicable regulations should be followed for proper disposal.

TECHNICAL SERVICES

A staff of trained service personnel offers design assistance and technical support. For technical assistance, contact our Technical Service Department:

- Technical Service Customer Care
505.217.2121
- Email mail@e-chem.net or go to:
www.e-chem.net.

SAFETY

Please refer to the Safety Data Sheet (SDS) for Transil SXT. Call E-Chem for more information at (505) 217-2121.